

What is claimed is:

1           1.       A method of establishing a call session over a packet-based network,  
2 comprising:  
3               receiving, in a first switch, a call request over the packet-based network  
4 from a first terminal associated with a logical identifier, the call request targeting a  
5 second terminal coupled to a second switch;  
6               storing, in the first switch, information relating to features of the first  
7 terminal, the information associated with the logical identifier;  
8               sending, from the first switch, a request over a packet-based trunk to the  
9 second switch in response to the call request; and  
10              sending, from the first switch to the first terminal, a media connection  
11 request containing a network address of the second terminal to enable the first terminal to  
12 establish a media path with the second terminal over the packet-based network.

1           2.       The method of claim 1, wherein receiving the call request comprises  
2 receiving an off-hook indication and a dialed number.

1           3.       The method of claim 2, wherein receiving the call request comprises  
2 receiving a network address of the first terminal.

1           4.       The method of claim 3, further comprising determining the logical  
2 identifier based on the network address.

1           5.       The method of claim 2, wherein the network address comprises an Internet  
2 Protocol address.

1           6.       The method of claim 1, wherein the logical identifier comprises a virtual  
2 terminal number.

1           7.       The method of claim 1, further comprising accessing the information in  
2 response to the call request to perform a predetermined action.

1           8.     The method of claim 7, wherein receiving the call request comprises  
2 receiving an indication of activation of a button on the first terminal.

1           9.     The method of claim 8, wherein accessing the information comprises  
2 accessing the information to determine an action to perform in response to the activation  
3 of the button.

1           10.    The method of claim 1, wherein storing the information comprises storing  
2 the information in a profile associated with the logical identifier.

1           11.    The method of claim 10, further comprising storing other profiles of other  
2 terminals associated with other logical identifiers.

1           12.    The method of claim 1, wherein storing the information comprises storing  
2 configuration information relating to one or more buttons of the first terminal.

1           13.    The method of claim 1, further comprising the second switch sending a  
2 second media connection request to the second terminal, the second media connection  
3 request containing a network address of the first terminal to enable the second terminal to  
4 establish a media path with the first terminal over the packet-based network

1           14.    A switch system for establishing calls over a packet-based network,  
 2    comprising:  
 3                an interface adapted to communicate over the packet-based network;  
 4                a controller communicatively coupled to the interface and adapted to  
 5    receive a call request from a first terminal, the first terminal associated with a logical  
 6    identifier, the call request targeting a second terminal that is coupled to a second switch  
 7    system,  
 8                the controller adapted to further send signaling to the second switch  
 9    system over a packet-based trunk provided over the packet-based network; and  
 10               a storage unit containing information relating to features of the first  
 11   terminal, the information associated with the logical identifier of the first terminal.

1           15.    The system of claim 14, wherein the logical identifier comprises a virtual  
 2   terminal number.

1           16.    The system of claim 15, wherein the storage unit further comprises a table  
 2   mapping the virtual terminal number to a network address.

1           17.    The system of claim 16, wherein the network address comprises an  
 2   Internet Protocol address.

1           18.    The system of claim 16, wherein the table comprises plural virtual  
 2   terminal numbers mapped to corresponding plural network addresses.

1           19.    The system of claim 14, wherein the storage unit contains a profile  
 2   associated with the logical identifier of the first terminal, the profile containing the  
 3   information relating to features.

1           20.    The system of claim 19, wherein the storage unit contains at least another  
 2   profile associated with at least another logical identifier of another terminal.

1           21.     The system of claim 14, wherein the signaling between the switch systems  
2     comprise signaling to determine if the second terminal is a network terminal capable of  
3     communicating over the packet-based terminal.

1           22.     An article comprising at least one storage medium containing instructions  
2     that when executed cause a first switch to:  
3                 receive a request over a packet-based network from a first terminal, the  
4     terminal associated with a logical identifier;  
5                 access a profile associated with the logical identifier; and  
6                 use information in the profile to send signaling to a second switch to  
7     establish a call session with a second terminal.

1           23.     A data signal embodied in a carrier wave and comprising instructions that  
2     when executed cause a first switch to:  
3                 receive a call request over the packet-based network from a first terminal  
4     associated with a logical identifier, the call request targeting a second terminal coupled to  
5     a second switch;  
6                 store information relating to features of the first terminal, the information  
7     associated with the logical identifier;  
8                 send a request over a packet-based trunk to the second switch in response  
9     to the call request; and  
10                send a media connection request to the first terminal containing a network  
11     address of the second terminal to enable the first terminal to establish a media path with  
12     the second terminal over the packet-based network.